SEQUENCE LISTING

<110> Bernard Pau

<120> Specific antibodies for diagnosing heart failure

<130> P70365US0

<140> US 10/523,400
<141> 2005-02-03

<150> PCT/FR03/02483
<151> 2003-08-07

<150> FR 0210063
<151> 2002-08-07

<160> 124

<170> PatentIn version 3.1

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<213> Homo sapiens : proBNP(1-108)

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His Pro Leu Gly Ser Pro Gly Ser Ala Ser Asp Leu Glu Thr Ser Gly
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Leu Gln Glu Gln Arg Asn His Leu Gln Gly Lys Leu Ser Glu Leu Gln
20 25 30

Val Glu Gln Thr Ser Leu Glu Pro Leu Gln Glu Ser Pro Arg Pro Thr
35 40 45

Gly Val Trp Lys Ser Arg Glu Val Ala Thr Glu Gly Ile Arg Gly His
50 55 60

Arg Lys Met Val Leu Tyr Thr Leu Arg Ala Pro Arg Ser Pro Lys Met
65 70 75 80

Val Gln Gly Ser Gly Cys Phe Gly Arg Lys Met Asp Arg Ile Ser Ser
85 90 95

Ser Ser Gly Leu Gly Cys Lys Val Leu Arg Arg His
100 105

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Ser Pro Lys Met Val Gln Gly Ser Gly Cys Phe Gly Arg Lys Met Asp
1 5 10 15

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Arg Ile Ser Ser Ser Ser Gly Leu Gly Cys Lys Val Leu Arg Arg His
            20                  25                  30


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<213>  Homo sapiens : proBNP(1-76)


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His Pro Leu Gly Ser Pro Gly Ser Ala Ser Asp Leu Glu Thr Ser Gly
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Leu Gln Glu Gln Arg Asn His Leu Gln Gly Lys Leu Ser Glu Leu Gln
            20                  25                  30

Val Glu Gln Thr Ser Leu Glu Pro Leu Gln Glu Ser Pro Arg Pro Thr
        35                  40                  45

Gly Val Trp Lys Ser Arg Glu Val Ala Thr Glu Gly Ile Arg Gly His
    50                  55                  60

Arg Lys Met Val Leu Tyr Thr Leu Arg Ala Pro Arg
65                  70                  75


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Tyr Thr Leu Arg Ala Pro Arg Ser Pro Lys Met Val Gln Gly Ser Gly
1               5                  10                  15


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<223>  chemically synthesized

<400>  5

Arg Ala Pro Arg Ser Pro
1               5


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Cys Gly Arg Ala Pro Arg Ser Pro
1 5

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Cys Gly Arg Ala Pro Arg Ser Pro
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Cys Gly Arg Ala Pro Arg Ser Pro Lys
1 5

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Cys Gly Arg Ala Pro Arg Ser Pro Lys
1 5

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Cys Gly Arg Ala Pro Arg Ser Pro Lys Met Val
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Cys Gly Arg Ala Pro Arg Ser Pro Lys Met Val Gln Gly Ser Gly
1 5 10 15

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Arg Ala Pro Arg Ser Pro Gly Cys
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Arg Ala Pro Arg Ser Pro Gly Cys
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Cys Tyr Thr Leu Arg Ala Pro Arg Ser Pro Lys
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Cys His Arg Lys Met Val Leu Tyr Thr Leu Arg Ala Pro Arg Ser Pro
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Lys

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1 5 10 15

Gly

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1 5 10 15

Gly

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1 5 10 15

Gly

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Ala

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Ala

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Ala

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Ala

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His Pro Leu Gly Ser Pro Gly Ser Ala Ser Asp Leu Glu Thr Ser
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<400> 24

Gly Ser Pro Gly Ser Ala Ser Asp Leu Glu Thr Ser Gly Leu Gln
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Gly Ser Ala Ser Asp Leu Glu Thr Ser Gly Leu Gln Glu Gln Arg
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<400> 26

Ser Asp Leu Glu Thr Ser Gly Leu Gln Glu Gln Arg Asn His Leu
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Glu Thr Ser Gly Leu Gln Glu Gln Arg Asn His Leu Gln Gly Lys
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Gly Leu Gln Glu Gln Arg Asn His Leu Gln Gly Lys Leu Ser Glu
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Leu Ser Glu Leu Gln Val Glu Gln Thr Ser Leu Glu Pro Leu Gln
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Leu Gln Val Glu Gln Thr Ser Leu Glu Pro Leu Gln Glu Ser Pro
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Glu Gln Thr Ser Leu Glu Pro Leu Gln Glu Ser Pro Arg Pro Thr
1 5 10 15

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<400> 36

Pro Leu Gln Glu Ser Pro Arg Pro Thr Gly Val Trp Lys Ser Arg
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Arg Pro Thr Gly Val Trp Lys Ser Arg Glu Val Ala Thr Glu Gly
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Gly Val Trp Lys Ser Arg Glu Val Ala Thr Glu Gly Ile Arg Gly
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Lys Ser Arg Glu Val Ala Thr Glu Gly Ile Arg Gly His Arg Lys
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Glu Val Ala Thr Glu Gly Ile Arg Gly His Arg Lys Met Val Leu
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Thr Glu Gly Ile Arg Gly His Arg Lys Met Val Leu Tyr Thr Leu
1 5 10 15

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Ile Arg Gly His Arg Lys Met Val Leu Tyr Thr Leu Arg Ala Pro
1 5 10 15

<210> 44

<211> 15

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His Arg Lys Met Val Leu Tyr Thr Leu Arg Ala Pro Arg Ser Pro
1 5 10 15

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<211> 15

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Met Val Leu Tyr Thr Leu Arg Ala Pro Arg Ser Pro Lys Met Val
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<400> 46

Tyr Thr Leu Arg Ala Pro Arg Ser Pro Lys Met Val Gln Gly Ser
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Arg Ala Pro Arg Ser Pro Lys Met Val Gln Gly Ser Gly Cys Phe

1 5 10 15

<210> 48

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<400> 48

Arg Ser Pro Lys Met Val Gln Gly Ser Gly Cys Phe Gly Arg Lys
1 5 10 15

<210> 49

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Lys Met Val Gln Gly Ser Gly Cys Phe Gly Arg Lys Met Asp Arg
1 5 10 15

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Gln Gly Ser Gly Cys Phe Gly Arg Lys Met Asp Arg Ile Ser Ser
1 5 10 15

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<400> 51

Gly Cys Phe Gly Arg Lys Met Asp Arg Ile Ser Ser Ser Ser Gly
1 5 10 15

<210> 52

<211> 15

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Gly Arg Lys Met Asp Arg Ile Ser Ser Ser Ser Gly Leu Gly Cys
1 5 10 15

<210> 53

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Met Asp Arg Ile Ser Ser Ser Ser Gly Leu Gly Cys Lys Val Leu
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Ile Ser Ser Ser Ser Gly Leu Gly Cys Lys Val Leu Arg Arg His
1 5 10 15

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Ala Thr Leu Arg Ala Pro Arg Ser Pro Lys Met Val Gln Gly Ser
1 5 10 15

<210> 56

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<400> 56

Tyr Ala Leu Arg Ala Pro Arg Ser Pro Lys Met Val Gln Gly Ser
1 5 10 15

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Tyr Thr Ala Arg Ala Pro Arg Ser Pro Lys Met Val Gln Gly Ser
1 5 10 15

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Tyr Thr Leu Ala Ala Pro Arg Ser Pro Lys Met Val Gln Gly Ser
1 5 10 15

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<400> 59

Tyr Thr Leu Arg Gly Pro Arg Ser Pro Lys Met Val Gln Gly Ser
1 5 10 15

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Tyr Thr Leu Arg Ala Ala Arg Ser Pro Lys Met Val Gln Gly Ser
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Tyr Thr Leu Arg Ala Pro Arg Ala Pro Lys Met Val Gln Gly Ser
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Tyr Thr Leu Arg Ala Pro Arg Ser Pro Lys Ala Val Gln Gly Ser
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<400> 68

Tyr Thr Leu Arg Ala Pro Arg Ser Pro Lys Met Val Gln Ala Ser
1 5 10 15

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<211> 15

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Tyr Thr Leu Arg Ala Pro Arg Ser Pro Lys Met Val Gln Gly Ala
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1 5 10 15

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Leu Gly Ser Pro Gly Ser Ala Ser Asp Leu Glu Thr Ser Gly Leu
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<400> 72

Ser Pro Gly Ser Ala Ser Asp Leu Glu Thr Ser Gly Leu Gln Glu
1 5 10 15

<210> 73

<211> 15

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1 5 10 15

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<210> 75

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Ala Ser Asp Leu Glu Thr Ser Gly Leu Gln Glu Gln Arg Asn His
1 5 10 15

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Ser Asp Leu Glu Thr Ser Gly Leu Gln Glu Gln Arg Asn His Leu
1 5 10 15

<210> 77

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<400> 77

Asp Leu Glu Thr Ser Gly Leu Gln Glu Gln Arg Asn His Leu Gln
1 5 10 15

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Leu Glu Thr Ser Gly Leu Gln Glu Gln Arg Asn His Leu Gln Gly
1 5 10 15

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Leu Gln Glu Gln Arg Asn His Leu Gln Gly Lys Leu Ser Glu Leu
1 5 10 15

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Gln Glu Gln Arg Asn His Leu Gln Gly Lys Leu Ser Glu Leu Gln
1 5 10 15

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Gln Arg Asn His Leu Gln Gly Lys Leu Ser Glu Leu Gln Val Glu
1 5 10 15

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<400> 82

Arg Asn His Leu Gln Gly Lys Leu Ser Glu Leu Gln Val Glu Gln
1 5 10 15

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<400> 83

His Leu Gln Gly Lys Leu Ser Glu Leu Gln Val Glu Gln Thr Ser
1 5 10 15

<210> 84

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<400> 84

Leu Gln Gly Lys Leu Ser Glu Leu Gln Val Glu Gln Thr Ser Leu
1 5 10 15

<210> 85

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<400> 85

Gln Gly Lys Leu Ser Glu Leu Gln Val Glu Gln Thr Ser Leu Glu
1 5 10 15

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<400> 86

Gly Lys Leu Ser Glu Leu Gln Val Glu Gln Thr Ser Leu Glu Pro
1 5 10 15

<210> 87

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Lys Leu Ser Glu Leu Gln Val Glu Gln Thr Ser Leu Glu Pro Leu
1 5 10 15

<210> 88

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Leu Glu Pro Leu Gln Glu Ser Pro Arg Pro Thr Gly Val Trp Lys
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Glu Pro Leu Gln Glu Ser Pro Arg Pro Thr Gly Val Trp Lys Ser
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Pro Leu Gln Glu Ser Pro Arg Pro Thr Gly Val Trp Lys Ser Arg
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Leu Gln Glu Ser Pro Arg Pro Thr Gly Val Trp Lys Ser Arg Glu
1 5 10 15

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Gln Glu Ser Pro Arg Pro Thr Gly Val Trp Lys Ser Arg Glu Val
1 5 10 15

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Glu Ser Pro Arg Pro Thr Gly Val Trp Lys Ser Arg Glu Val Ala
1 5 10 15

<210> 94

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Ser Pro Arg Pro Thr Gly Val Trp Lys Ser Arg Glu Val Ala Thr
1 5 10 15

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<400> 95

Pro Arg Pro Thr Gly Val Trp Lys Ser Arg Glu Val Ala Thr Glu
1 5 10 15

<210> 96

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<400> 96

Pro Thr Gly Val Trp Lys Ser Arg Glu Val Ala Thr Glu Gly Ile
1 5 10 15

<210> 97

<211> 15

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<400> 97

Thr Gly Val Trp Lys Ser Arg Glu Val Ala Thr Glu Gly Ile Arg
1 5 10 15

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<211> 15

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<400> 98

Ile Arg Gly His Arg Lys Met Val Leu Tyr Thr Leu Arg Ala Pro
1 5 10 15

<210> 99

<211> 15

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<400> 99

Arg Gly His Arg Lys Met Val Leu Tyr Thr Leu Arg Ala Pro Arg
1 5 10 15

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<211> 15

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<400> 100

Gly His Arg Lys Met Val Leu Tyr Thr Leu Arg Ala Pro Arg Ser
1 5 10 15

<210> 101

<211> 15

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<400> 101

Arg Lys Met Val Leu Tyr Thr Leu Arg Ala Pro Arg Ser Pro Lys
1 5 10 15

<210> 102

<211> 15

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<400> 102

Lys Met Val Leu Tyr Thr Leu Arg Ala Pro Arg Ser Pro Lys Met
1 5 10 15

<210> 103

<211> 15

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<400> 103

Val Leu Tyr Thr Leu Arg Ala Pro Arg Ser Pro Lys Met Val Gln
1 5 10 15

<210> 104

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<400> 104

Ser Pro Lys Met Val Gln Gly Ser Gly Cys Phe Gly Arg Lys Met Asp
1 5 10 15

Arg Ile Ser Ser Ser Ser Gly Leu Gly Cys Lys Val Leu Arg Arg His
20 25 30

Lys Lys Lys
35

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Ser Pro Lys Met Val Gln Gly Ser Gly Cys
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<400> 106
Arg Lys Met Val Leu Tyr Thr Leu Arg Ala Pro Arg
1 5 10

<210> 107
<211> 13
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<400> 107

His Arg Lys Met Val Leu Tyr Thr Leu Arg Ala Pro Arg
1 5 10

<210> 108

<211> 15

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<400> 108

Tyr Thr Leu Arg Ala Pro Arg Ser Pro Lys Met Val Gln Gly Ser
1 5 10 15

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<400> 109

Cys Tyr Thr Leu Arg Ala Pro Arg Ser Pro Lys Met Val Gln Gly Ser
1 5 10 15

<210> 110
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<400> 110

Cys Tyr Thr Leu Arg Ala Pro Arg Ser Pro Lys
1 5 10

<210> 111
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<223> peptide

<400> 111

Cys Tyr Thr Leu Arg Ala Pro Arg Ser Pro Lys Met Val
1 5 10

<210> 112
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<400> 112

Cys Tyr Thr Leu Arg Ala Pro Arg Ser Pro Lys Met Val Gln
1 5 10

<210> 113
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<223> peptide

<400> 113

Cys Tyr Thr Leu Arg Ala Pro Arg Ser Pro Lys Met Val Gln Gly
1 5 10 15

<210> 114
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<222> (1)..(1)

<223> chemically synthesized

<400> 114

Cys Thr Leu Arg Ala Pro Arg Ser Pro Lys Met Val Gln
1 5 10

<210> 115

<211> 14

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<400> 115

Cys Thr Leu Arg Ala Pro Arg Ser Pro Lys Met Val Gln Gly
1 5 10

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<400> 116

Cys Thr Leu Arg Ala Pro Arg Ser Pro Lys Met Val Gln Gly Ser
1 5 10 15

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<400> 117

Cys Thr Leu Arg Ala Pro Arg Ser Pro Lys Met Val Gln Gly Ser Gly
1 5 10 15

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<211> 11

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<223> peptide

<400> 118

Cys Leu Arg Ala Pro Arg Ser Pro Lys Met Val
1 5 10

<210> 119

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<400> 119

Cys Leu Arg Ala Pro Arg Ser Pro Lys Met Val Gln
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<210> 120

<211> 12

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<400> 120

Leu Arg Ala Pro Arg Ser Pro Lys Met Val Gln Cys
1 5 10

<210> 121

<211> 14

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<220>

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<223> peptide

<400> 121

Cys Leu Arg Ala Pro Arg Ser Pro Lys Met Val Gln Gly Ser
1 5 10

<210> 122

<211> 15

<212> PRT

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<223> peptide

<400> 122

Cys Leu Arg Ala Pro Arg Ser Pro Lys Met Val Gln Gly Ser Gly
1 5 10 15

<210> 123

<211> 11

<212> PRT

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<220>

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<223> peptide

<400> 123

Leu Gln Glu Gln Arg Asn His Leu Gln Gly Lys
1 5 10

<210> 124

<211> 12

<212> PRT

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<220>

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<223> peptide

<400> 124

Leu Glu Pro Leu Gln Glu Ser Pro Arg Pro Thr Gly
1 5 10